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Fixing failing schools: How states and localities implement federal reforms

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Abstract

Under the Adequate Yearly Progress (AYP) provision of the No Child Left Behind Act of 2001 (NCLB), schools that consistently failed to reach state-designed levels of proficiency were required to implement at least one reform from a slate of federally prescribed options. Although much work in the education and political science community has investigated the federal and state impact of NCLB, little work has been done on local governance. This paper will be the first to look for a relationship between state-level factors and local NCLB implementation. It addresses the following question: Are there state-level factors that influence the types of reforms implemented in struggling schools? This study provides insight into how state dynamics influence education reform. First, my evidence provides support to my hypothesis that interest groups matter in the implementation of local reform. Second, I find little support for the impact of bureaucratic capacity on local reform.

Introduction

“This is life and death.”¹ Perhaps a bit dramatic, but like his peers over the past ten years, Superintendent John Deasy has lived and died by the implications of the No Child Left Behind Act (NCLB). When passed in 2001, NCLB transformed the governance structure of an already complex federal education system (Manna 2011; Timar 1997). At the heart of the law was a system of accountability standards for the nation’s schools, which would be designed, implemented, and monitored by the states (Manna 2004; 2011). For those schools that consistently failed to meet state standards, local leaders with help from the state would have to choose from a set of federal reforms to “fix” them (Manna 2011; U.S. Department of Education 2006; hereafter USDOE).

Significant scholarly work has been done about NCLB’s impact as a federal initiative and its impact on student achievement (Center on Education Policy 2007; 2009; Dee and Jacob 2011; Hanushek and Raymond 2004; Manna 2011). This paper addresses a different question relating to governance: Are there state-level factors that influence the types of reforms implemented in struggling schools?

Understanding the mechanisms public officials utilize to make decisions is essential to a transparent and democratic society. In a country that overwhelmingly supports a decentralized mechanism of education governance (Jacobsen and Saultz 2012; Timar 1997), discerning state and local dynamics is essential. Despite these normative goals, why is a study of NCLB’s local implementation still relevant when 46 of 52 states (including the District of Columbia and Puerto

¹ Quote from former Superintendent of Prince George’s County public schools, Maryland and current Superintendent of Los Angeles public schools, John Deasy. Reported by the Associated Press.

Rico) have been granted a waiver by the U.S. Department of Education from Adequate Yearly Progress (AYP) consequences?²

I pose two primary reasons. First, federal education policy remains volatile, and it is unclear how and when policies will be determined. Over the course of the Obama Administration, there have been three Race to the Top (RTTT) initiatives, NCLB waivers ³, and talks of Elementary and Secondary Education Act (ESEA)⁴ reauthorization. Given this federal volatility, states are not only facing complex federal expectations today, but also the prospect of future complications.

Second, states across the country are passing and debating reforms similar to those implemented under NCLB, including school takeover, teacher and principal removal, and charter authorization. When considering reforms, state leaders should consider both the achievement-related evidence and the political dynamics of their state. This study will attempt to partially explain the second consideration by analyzing the impact of state-level interest groups and bureaucratic capacity on reform efforts.

This thesis makes three primary contributions to the education policy literature. First, my evidence supports the finding that interest groups matter in local reform implementation. It appears that business associations prefer quick and clean measures of reform as compared to more complex and technical reforms. Furthermore, teachers unions seem to protect their own members and their interests, while also seeking to grow classroom capacity. Second, I find little

² States that have not been granted a waiver can be found <http://www2.ed.gov/policy/elsec/guid/esea-flexibility/index.html>

³ Most of the NCLB waivers issued by the U.S. Department of Education will expire at the end of this coming school year in Spring 2014. As the political dynamics in Washington look too contentious to produce a new reauthorization of NCLB, it is possible, however, unlikely that states could again be forced to comply with NCLB. It is more likely that the Department of Education will pass down new waivers (Riddle and Kober 2012a; 2012b).

⁴ Elementary and Secondary Education Act (ESEA) was originally signed into law in 1965 under President Johnson. No Child Left Behind was the 2001 reauthorization of ESEA (Manna 2011). The law has traditionally been reauthorized every six years, but it has not been reauthorized since 2001.

support for the impact of bureaucratic capacity on local reform. This study finds capacity impacted only one type of reform under AYP's reform plan. Third, greater study is needed on the impact of bureaucratic capacity. Although there are mostly null findings in this study, part of the explanation for the result may have to do with the poor measures of capacity currently available to researchers. Future work should be done to measure and capture better measures.

The remainder of this paper is divided into four sections. I begin with a brief explanation of NCLB. Then, I outline the two primary theoretical lenses that may explain the variation in reform implementation: interest groups and bureaucratic capacity. Next, I discuss my methods and data, and then I explain my results. Finally, I discuss the broader implications of this paper.

NCLB Background

Despite the overwhelming bipartisan support for No Child Left Behind when it was passed by Congress⁵, the law did not meet the same acclaim upon its implementation. Advocates of NCLB trumpeted that the law would hold schools accountable yet give state and local leaders the flexibility to act effectively (Manna 2011). Critics lamented clumsy federal implementation and condemned the main accountability measure, Adequate Yearly Progress (AYP), as a poor tool for analyzing student achievement in schools (Ravitch 2010).

As envisioned, NCLB would significantly increase the participation of the federal government in education policy. For the first time, there would be consequences imposed by the federal government on schools and districts that failed to show sufficient academic progress over a given school year. Although accountability had long been brewing as an issue on the national agenda, NCLB was the first federal initiative to create a mechanism, AYP, through which

⁵ The bill passed on May 23, 2001 in the House of Representatives with a majority of 384-45 (Republicans voted in favor 185-34, and Democrats voted in favor 197-10). It then passed in the United States Senate by a margin of 91-8 (Republicans voted 43-6 in favor, and Democrats voted 47-2 in support). The bill was signed into law by President George W. Bush on January 8, 2002. <https://www.govtrack.us/congress/bills/107/hr1>

localities would face federal consequences (Manna 2011). AYP is the expectation that schools must achieve a level of proficiency on standardized tests in each successive year (USDOE 2006).

States had much control over how AYP was implemented. They were allowed to both define the student-level standard of proficiency and the minimum percentage of students that must achieve proficiency for a school or district to meet AYP, often referred to as “cut-scores.” Schools would miss AYP if they failed to get the minimum number of proficient students or if any individual student subgroup—for example African American, Hispanic, low income students—did not reach achieve their cut-score. The AYP standards also included minimum performance in test participation, attendance, and graduation requirements. Only in the 2013-2014 school year could states not set their own cut-scores, because NCLB mandated by that time that all schools and districts had to meet 100 percent proficiency (Manna 2011).

Although AYP was designed to give states increased flexibility, some viewed the design as problematic. Critics argued that states, who also designed their own tests, could set the bar for student-level proficiency and AYP so low that schools and districts could easily achieve them without improving (Carey 2007; Fuller et al. 2007). Advocates said that test scores would still improve, yet there is still a debate about NCLB’s outcomes. Some argue that NCLB has improved student outcomes (Center on Education Politics 2007; 2009; Hanushek and Raymond 2004), while others argue that nothing has changed or outcomes have regressed (Lee 2006).

This study does not engage in the debate over outcomes, however. Instead, I focus on the implementation of reforms for the worst performing schools. These schools were the ones who consistently failed to make AYP. Schools that did not meet AYP were designated as “in need of improvement.” And schools that failed for multiple years faced varying levels of consequences. The responsibilities for each successive year can be seen in Table 1. The second year a school

missed AYP, they had to offer local school choice options for their students, and in year three they were required to implement supplemental education services. In year four, schools had to implement corrective action, in addition to the previous reforms. By year five, schools had to design a plan for restructuring, and then implement it if necessary in year six (USDOE 2006, No Child Left Behind Act (Public Law 107-110), Section 116).

Table 1. Consequences for schools missing AYP

Number of Years Missing AYP	Consequence for School
1	School on watch
2	Implement local school choice
3	Implement local school choice and supplemental educational services
4	Implement corrective action, and implement local school choice and supplemental educational services
5	Create a restructuring plan, implement corrective action, and implement local school choice and supplemental educational services
6	Implement restructuring plan, implement corrective action, and implement local school choice and supplemental educational services

Note: Adapted from Manna 2011 and the No Child Left Behind Act (Public Law 107-110), Section 116

SEAs, localities, and schools all were given responsibilities in the implementation of school improvement, yet there exists variation in how these responsibilities were carried out. When a school falls under corrective action or restructuring, localities were required to provide the school with technical assistance⁶, which is “practical advice offered by an expert source that addresses specific areas for improvement” (USDOE 2006, 15). Localities, as mentioned earlier, were required to continue implementing previous steps of improvement and one of the seven

⁶ Localities did not have to administer technical assistance alone. Localities could use other resources, such as SEAs, institutions of higher education, educational service agencies or private organizations (USDOE 2006).

corrective action reforms. State Education Agencies (SEAs) had two primary responsibilities when a school was in improvement: to “allocate Title I, Part A funds” for improvement activities, and “create and sustain a statewide system” of technical support (USDOE 2006, 17). States varied significantly in the quality and type of technical support. Some relied on expert support teams who held expertise in a variety of areas, school improvement specialists or regional support centers, while others left technical support mostly up to localities or hosted infrequent statewide conferences (Le Floch et al. 2007).

SEAs, localities and schools all played an important role in dictating which reforms were selected in corrective action and restructuring. Schools in most cases made the ultimate decision on which reform to implement, yet state and local factors certainly played a supportive role. I will be looking see how these state-level factors affected the implementation of local reforms.

Theoretical Framework

My paper will test two theories in the literature on the policy-making process. Some scholars posit that interest groups—teachers unions and business interests—can account for changes in policies that reflect the desires of these powerful groups (Manna 2006; Moe 2011; Ravitch 2010). Other experts assert that bureaucracies’ capacities—a measure of the abilities of state actors—can explain variation in policy across states (Barrilleaux and Brace 2007; Barilleaux and Miller 1988; Berkman and Plutzer 2010; Gottfried et al. 2011; Timar 1997). The following section will discuss these perspectives, and how they may work in the context of school reforms.

Interest group policy-making model

The nation’s K-12 education system provides many entry points for citizens to give their input and advice, which can give interest groups tremendous leverage to assert their policy

preferences (Manna 2006; Moe 2011). The first primary theory of study in this paper, the *interest group policy-making model*, will test the assertion that powerful interest groups advance their agenda in reform implementation. In this theory, I expect states with powerful education interest groups are more likely to see reforms that align with their agenda than states with weak education interest groups.

The two primary interest groups in education policy are teachers unions and business associations (Moe 2011, Hartney and Flavin 2011, Moe 2006). Teachers unions traditionally support proposals that protect teachers' jobs, salaries, and benefits and promote a quality work environment (Kahlenberg 2006; Moe 2011). Unlike many other traditional interest groups, teachers unions are well positioned in the policy landscape to project substantial power. First, combined political contributions of the National Education Association (NEA) and the American Federation of Teachers (AFT) exceed any other single business or industry political group in the United States (Moe 2011). Second, teachers unions are able to influence education policy processes at the federal, state, and local levels (Moe 2006; 2011; West 2010). Third, unions have won strong collective bargaining and protective contracts in most states, making them a forceful agent (Kahlenberg 2006; Moe 2011; West 2010).

Teachers unions have had tremendous success over the past 50 years in achieving their goals (Kahlenberg 2006). Defenders of teachers unions argue these victories have benefited students, as well. When teachers can focus on their classroom instead of their pay, health benefits, job security, and other job-related issues, students will benefit from better teaching (Kahlenberg 2006). Advocates also point towards smaller class sizes (Mishel and Rothstein 2002), as further examples of union victories that helped students. They argue that unions free teachers to maximize their effectiveness (Ravitch 2010; Weingarten 2010).

Conversely, a growing group of union critics see the interests of unions as an obstruction to needed education reforms and subsequent improvements to student achievement (Brimelow 2003; Lieberman 1997; Moe 2011). Critics point to the roots of teachers unions, which they say were designed and formed, like their private and public union counterparts, to protect the workers they represent (Levi et al. 2009; Moe 2006). Their incentives are to address the goals of the members. Union leaders are elected and paid by a group with homogenous interests (Levi et al. 2009). Failure to represent teachers' interests could, in some states, result in financial losses for the union⁷ or replacement of the leadership (Moe 2006; 2011). These incentives encourage unions to focus on the needs of their members, primarily job security, financial compensation, and resource support (Moe 2006).

Business associations act as the main countervailing force to teachers unions in education policy (Moe 2011; Ravitch 2010). Yet, why do business associations care about education? Business leaders see investment in education as a smart, long-term decision that will develop a more capable workforce and benefit the business community (Moe 2011). Often reform efforts supported by business associations focuses on developing human capital, encouraging free market solutions, and instituting accountability metrics and punishment mechanisms for teachers and principals (Moe 2011; Ravitch 2010). Much of the business community's interest in education reform has been leveled in urban communities such as New York City and San Diego (Hannaway and Stanislawski 2005; Klein 2010; Ravitch 2010).

Despite a common interest in education, business associations differ from teachers unions in several ways. First, business groups often have more diverse policy agendas with interests

⁷ Unions lose money by losing members. In states that do not have compulsory membership dues, teachers could choose to leave the union, resulting in a financial lose for the organization. There are 24 states that require teachers to pay agency fees to the union, and only in these states would unions not be at risk of losing funding. Alternatively, members can replace union leaders (Moe 2011).

ranging from tax policy to infrastructure to healthcare. This diverse agenda makes it difficult for associations to match teachers unions in every federal, state, and local arena. They have neither the resources nor the information, because of this diverse agenda and their lack of direct connections to the classroom (Moe 2011). Instead of constantly battling, associations carefully choose the issues they push.

This paper will test the relative strengths of teachers unions and business interests through the lens of struggling school reforms. In the *interest group policy-making model*, in states with a strong union presence, I expect fewer reforms will threaten teachers stability. In states with a strong business influence, there will be a greater proportion of the typical business association agenda implemented.

Bureaucratic capacity policy-making model

One of the primary tasks of state education agencies (SEAs) since the 1960s has been to carry out federal programs and help localities implement them. Before growing demand from the federal government, SEAs were small and rather unprofessional. However, in the 1970s SEAs began to grow in size and funding (Timar 1997). With growth came more specialization and professionalism. Lastly, SEAs began to develop and expand into more complex state-level policy. This growth did not last forever, and since the 1980s, SEAs have been facing smaller budgets and shrinking capacity. Despite these general national trends over the last 50 to 60 years, there still exists wide variation in capabilities of SEAs across states (Barilleaux and Brace 2007; Berkman and Plutzer 2010; Gottfried et al. 2011).

NCLB required states to take much greater responsibility for education quality than ever before. States were mandated to set standards for student achievement, evaluate schools and

districts based on these measures, and report results back to the federal government (Manna 2011). Reports included a variety of performance measures from student subgroup test scores, testing participation rates, school attendance rates, high school graduation rates, structure and content of state assessments, and teacher quality (State Consolidated Reports 2006). There is a range in the quality and thoroughness of these reports across states. Implementation of policies under NCLB have been found to have mixed quality associated with the abilities of SEAs (Boyle et al. 2009; Gottfried et al. 2011; Le Floch et al. 2007; Sunderman and Orfield 2007).

As scholars have struggled to identify consistent data sources on state funding and manpower, they have shifted focus to other relationships that help explain bureaucratic capacity and its relation to policy making and implementation. Scholars have found a relationship between urbanization and professionalization of bureaucracies (Manna and Harwood 2011). Urban states possess the resources to develop professionalized bureaucracies, the networks to connect to other experts, and the ability to understand and implement reforms and strategies that have been developed in and for urban schools. Conversely, rural states often struggle to scrap together the same resources, networks, or easy adoption of reforms. Resources, networking, and technical ability have led scholars to adopt urbanization as a useful proxy measure for bureaucratic capacity (Berkman and Plutzer 2010; Manna and Harwood 2011).

Scholars of bureaucratic capacity would point out that the differences between state agencies make up a large portion of the difference in the success or failure of local implementation (Barrilleaux and Brace 2007; Barilleaux and Miller 1988; Berkman and Plutzer 2010; Gottfried et al. 2011). I will refer to this theory as the *bureaucratic capacity policy-making model*. If this model holds true, we can expect to see states with greater capacity will initiate more complex reforms.

Data and Methods

For this paper, I have collected data from all 50 states, the Districts of Columbia, and Puerto Rico on the implementation of corrective action and restructuring reforms under NCLB. The dependent variables originated from State Consolidated Reports⁸ from 2006 to 2011, while the independent variables of interest came from a variety of sources. Teacher union and business association political contributions were gathered using the Industry Tool at Follow the Money⁹, and total assets of teacher union and management groups were found via Foundation Center's 990 Finder search tool¹⁰. Measures of bureaucratic capacity were also compiled from different sources, including the U.S. Census Bureau for population density¹¹, and the National Center for Education Statistics's (NCES) table generator tool for state education funding¹². Also from the NCES, I collected most of the data for the control variables, except for the partisanship controls which were gathered from the National Governors Association¹³ and the Council of State Government's Knowledge Center¹⁴.

In this analysis, I have two sets of dependent variables: corrective action reforms and restructuring reforms. These data, as mentioned previously, have been gathered from State

⁸ Thanks to Professor Paul Manna, Department of Government at the College of William & Mary, for his access to the State Consolidated Reports. These data have been gathered in conjunction with his work on the State Education Governance Study funded by the Spencer Foundation.

⁹ Data can be found following this link: <http://www.followthemoney.org/database/IndustryTotals.phtml>. To search for teachers union contributions follow "Labor" then "Public Sector Unions" and select "Teachers unions" for each state. To search for business association contributions follow "General Business" and select "Business Associations."

¹⁰ Data can be found following this link: <http://foundationcenter.org/findfunders/990finder/>. Search organization names in the correct search box, and then select the appropriate state. For a list of all organizations searched for this project, consult Table 2 in the Appendix.

¹¹ Data can be found following this link: <http://www.census.gov/popest/data/index.html>. Follow the link to find the total population and density in each year 2006 to 2010.

¹² Data can be found by following this link: <http://nces.ed.gov/ccd/elsi/default.aspx?agree=0>. Use the table generator to find the variables of interest: percent of total funding from state sources, percent of students receiving free and reduced lunch, percent of white students, total students.

¹³ Data can be found by following this link: <http://www.nga.org/cms/FormerGovBios>. Consult rosters of Governor's for each year from 2006 to 2011.

¹⁴ Data can be found by following this link: <http://knowledgecenter.csg.org/kc/content/bos-2006-chapter-3-state-legislative-branch>. Consult "Book of State" report for each year 2006 to 2011.

Consolidated Reports, which are completed by SEAs and reported to the U.S. Department of Education.

Dependent Variables–Corrective Action

As defined by the U.S. Department of Education's Student Achievement and School Accountability Programs Office, a corrective action reform "is a significant intervention in a school that is designed to remedy the school's persistent inability to make adequate progress toward all students becoming proficient in reading and mathematics" (USDOE 2006). Schools in corrective action must continue to implement reforms required in earlier stages of school improvement and implement at least one of the reforms in Table 3.

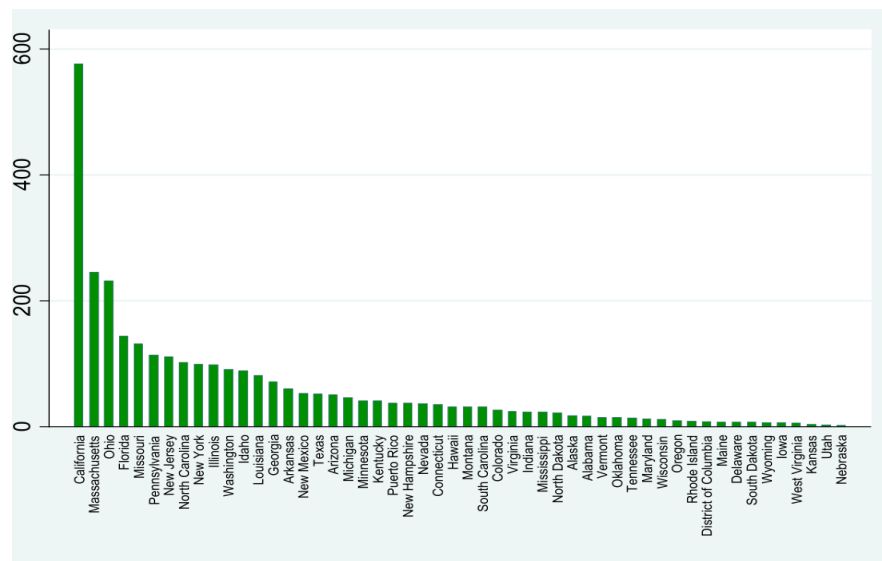
Table 3. Corrective Action Reforms and examples.

Corrective Action Reforms	Examples of Reform
New curriculum	Development of new math or reading curriculum or pedagogical techniques
Replace staff	Removal of inadequate staff, but must be in accordance with all labor laws
Decrease managerial authority	Flexible measure that can transfer powers to local control board or central office.
Replace principal	Removal of inadequate principal, but must be in accordance with all labor laws
Extend school day or year	No minimum amount of time to extend school day or school year
Outside expert	Appoint a professional expert who is to support and recommend reforms, but in practice suggestions are implemented
Change internal organization	Changes in scheduling, administrative responsibilities, etc.

Note: Examples are provided from a guide shared with Illinois localities from the Illinois Department of Education. Also important to note that a school can implement more than one of these options at the same time (Illinois State Board of Education).

State education agencies were required by the U.S. Department of Education to report counts of corrective action reforms¹⁵ implemented. I collected these data from “Section 1.4 School and District Accountability” of the 2006 to 2011 State Consolidated Reports. Figure 1 shows the large variation in the average number of corrective action reforms implemented across states. For instance, in California, schools across the state implemented an average of 576 corrective action reforms, while the smallest state, Wyoming, implemented 7. For this reason, I transformed the counts of each corrective action into percent of total reforms¹⁶.

Figure 1. Average corrective action reforms implemented in schools from 2006 to 2011, by state



Note: Data collected from State Consolidated Reports for each state from 2006 to 2011. Results are the average number of reforms in each state over this time period.

Even when accounting for the size of the state, there still exists variation in the percentage of corrective action reforms implemented. Table 4 contains the basic descriptive statistics of the corrective action reform variables. Even the reform with the smallest amount of

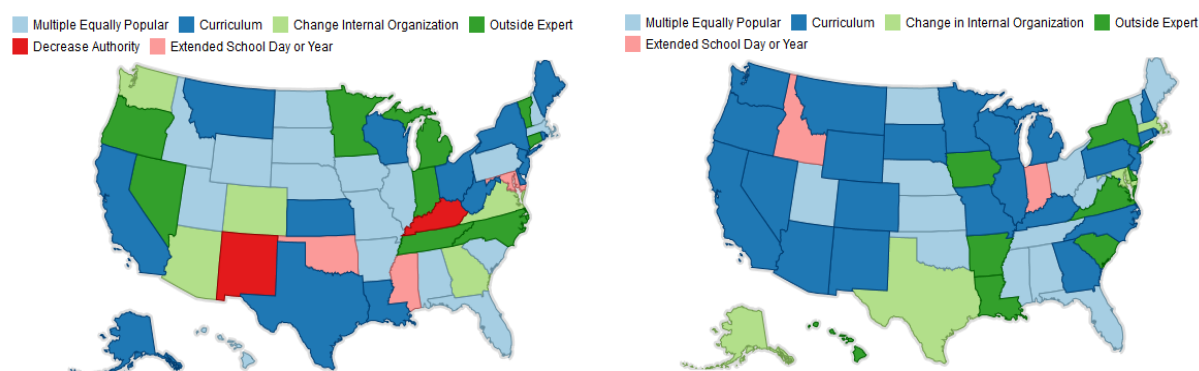
¹⁵ These counts of total corrective action reform are not necessarily equal to the number of schools in corrective action. A school could choose to implement more than one corrective action reform at a time, and so I did not calculate the measure out of total schools in corrective action, because it would over predict the implementation of reforms.

¹⁶ See footnote 15. I also did not make this variable out of total schools in a state, because my universe of interest is schools implementing reforms.

variance, *Decrease managerial authority*, has a standard deviation of a little over 9 percentage points, while *New curriculum* has a standard deviation of 26.7 percentage points. The frequency of reform implementation also varies. *New curriculum* is the most popular reform with a mean of over 37 percent of total reforms, while *Decrease managerial authority*, *Replace staff*, and *Replace principal* all have means below 6 percent.

New curriculum is the modal reform across states and years, yet it is not the most popular reform in each state in each year. Figure 2 has two maps with the most popular corrective action reform for each state. The first map is for the 2006-2007 school year, and the second one is for the 2010-2011 school year. There are five different reforms that are the modal type in at least one state in 2006-2007. 17 states that have two or more reforms that are equally popular. In the 2010-2011 school year the map looks quite different. *Decrease managerial authority* is no longer a modal reform in any state, and there are only 13 states with multiple equally popular reform. The most striking change is the increase of *New curriculum* as the modal reform from 14 states in 2006-2007 to 23 states in 2010-2011.

Figure 2. Most popular corrective action reforms, by state in 2006-2007 school year and 2010-2011 school year



Note: Data gathered from State Consolidated Reports in year 2006 and 2010. Maps were generated at <https://datawrapper.de/>

Table 4. Descriptive statistics

A. Corrective Action Dependent Variables (Percent of Total)					
	N	Mean	Standard Deviation	Minimum	Maximum
Curriculum	229	37.26	26.7	0	100
Extended School Day or Year	229	11.14	14.49	0	78.57
Replace Staff	229	5.44	9.72	0	100
Decrease Authority	229	5.18	9.06	0	51.79
Replace Principal	229	5.71	9.34	0	53.85
Change Internal Organization	229	10.98	13.74	0	100
Outside Expert	229	24.27	22.74	0	100
B. Restructuring Dependent Variables (Percent of Total)					
	N	Mean	Standard Deviation	Minimum	Maximum
Replace Staff	206	20.41	28.76	0	100
Public Charter	206	0.72	5.46	0	75
Private Entity	206	2.47	8.28	0	55.17
State Takeover	206	3.01	15.8	0	100
Other	206	73.39	33.21	0	100
C. Independent Variables					
	N	Mean	Standard Deviation	Minimum	Maximum
Business Association Contributions (Per student and 2 year cycle)	261	0.64	2.16	0	23.47
Teacher Union Contributions (Per student and 2 year cycle)	261	1.49	2.55	0	18.54
Education Funding from State Sources (Percent of total funding)	207	48.71	13.84	0	85.94
Logged State Population Density	260	4.61	1.55	0.17	9.2
Free and Reduced Lunch (Percent of total students)	254	43.52	12.61	17.66	92
White Students (Percent of total students)	260	61.59	21.244	0	94.55
Teacher Union Assets (Dollars per student)	102	24.9	20.175	1.86	92.99
Leadership Association Combined Assets (Dollars per student)	138	8.48	8.427	0.12	36.8
D. Independent Variables (Bivariate)					
	N	Percent Present	Percent Absent		
Unified Republican Governor	260	24.23	75.77		

Dependent Variables—Restructuring

The Department of Education guidelines for state and local agencies define the restructuring process as follows:

“A school that misses its annual achievement targets for five or more years is identified for restructuring...Generally speaking, under NCLB when a school is in *restructuring* status, the LEA must take intensive and far-reaching interventions to revamp completely the operation and governance of that school” (USDOE 2006, 26).

The restructuring process was intended to aggressively reform the worst schools. Similar to the corrective action process, schools entering restructuring had to maintain any reforms from previous levels of consequences. After the fifth year of missing AYP, a school would create a restructuring plan, then implement it if they failed a sixth year. The restructuring plan must include one of the five options in Table 5.

Table 5. Restructuring reforms and examples

Restructuring	Examples of Reform
Replace staff	Replace all or most staff associated with poor performance, can include principal, must be in accordance with state laws
Public charter	Close and reopen school as public charter
Private contract	Contract with a successful private management company that will operate the school
State takeover	Turn over operations of school to the SEA, if permitted by state laws
Other	Decrease managerial control, increase control by LEA, reopen school as themed school, create small independent learning communities, dissolve the school, pair with achieving school, expand or narrow grades served

Note: Examples gathered from School Improvement Report (2006).

Some of these restructuring options align with options under corrective action, yet there are a few major differences. Most notably, the final option for schools under restructuring is a loosely defined *Other* category. According to NCLB, the *Other* option permits an LEA to implement

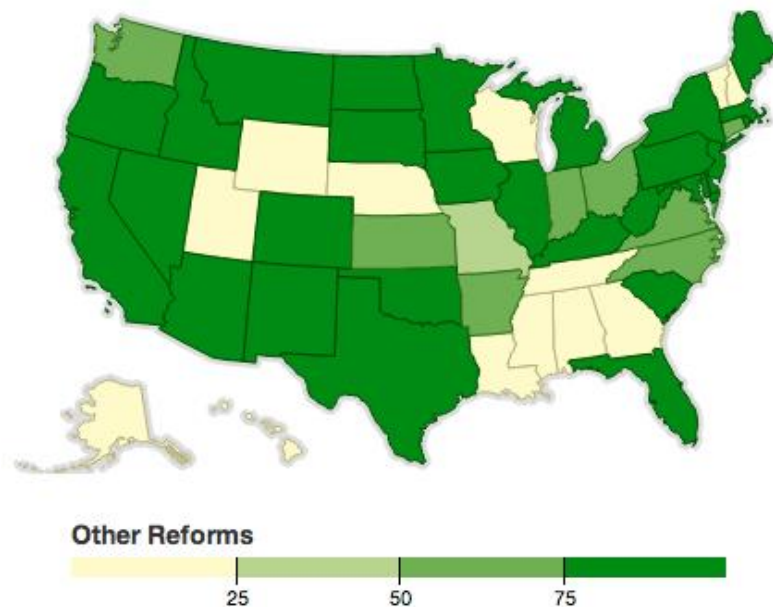
“any other major restructuring of the school’s governance arrangement that makes fundamental reforms, such as significant changes in the school’s staffing and governance, to improve academic achievement in the school and that has substantial promise of enabling the school to make adequate yearly progress” (USDOE 2006, 30).

This reform was designed to give localities greater flexibility. The law, however, did not design a clear mechanism for SEAs or the U.S. Department of Education to hold localities accountable to the aforementioned standard.

As in the case of corrective action reforms, the largest states often implemented the most reforms, so for my analyses I transformed the restructuring counts into a percentage of total reforms in each state and year. Unlike corrective action there is a clear modal reform. Table 4 shows the mean of *Other* reforms at over 73 percent, and the next closest reform, *Replace staff*, has a mean of 20.41 percent. *Public charters*, *Private entities*, and *State takeovers* are very uncommon with each falling around or below 3 percent of reforms implemented.

Despite the popularity of implementing *Other* restructuring reforms, there still exists a great deal of variance across states in the proportion of each reform implemented. See in Figure 3, a map of the United States that represents the percent of *Other* reforms implemented in the 2008-2009 school year. Although a majority of states fall in the upper quartile, 28 states implemented over 75 percent, there are still 13 states that implement less than 25 percent *Other* reforms.

Figure 3. Percent of *Other* reforms implemented in restructuring in the 2008-2009 school year



Note: Data gathered from State Consolidated Reports in 2008. Maps were generated at <https://datawrapper.de/>

Independent Variables

I have grouped my discussion of independent variables into three sections: interest group variables, bureaucratic capacity variables, and control variables. The interest group and bureaucratic capacity variables will test my complementary theories, while the third set represents important factors associated with policy change which are used in the policy literature.

Political scientists have used many strategies to predict the impact of interest groups on education policymaking. For this paper, I will focus on the political contributions of the two primary groups that influence the education policy arena, teachers unions and business associations (Hartney and Flavin 2010). Although these groups often have influence in numerous aspects through campaigns, lobbying, institutions and more, political contributions serve as a proxy for these measures, and is accessible on watchdog websites like Follow the Money. I posit that groups that contribute more will have a larger influence on outcomes.

I collected political contributions data from Follow the Money's Industry tool. Political contributions by groups has wide variation year to year due to the timing of state elections. For instance, most states have state-level elections on even numbered years (2008, 2010, etc.), but other states have elections on odd numbered years (2007, 2009, etc.). To account for this variation across states, I created a cycle variable that added the political contributions from the two years before the spring half of the school year. For instance, corrective action and restructuring school year reforms implemented in School Year 2006-2007 are associated with political contributions from January to December 2005 plus January to December 2006. Finally, to account for variation in size of contributions based on population size, I standardized the contribution measure by dividing it by the total number of students. My political contribution variables were constructed as a state group's two-year political contributions per student.

Substantial variation exists across states in the political contributions of teachers unions and business associations, yet in most states teachers unions contribute more than business associations. In Figure 4, blue states represent greater union contributions, and red states represent greater association contributions. There are only 10 states where business associations outpace unions, and they are predominately southern with the exception of Vermont and Delaware. Business associations contribute up to 10 times as much as unions in these states. The lightest blue states represent a comparable level of union strength to the associations pink. In this slightly pro-union category, there are 23 states. Even more startling are the 11 states that are extremely pro-union, which are shaded a dark blue. In these states, unions contribute at least 25 dollars for every association dollar.

Teacher to Business Ratio

0.04 0.1 1 10 25

In addition to examining the impact of business associations and teachers unions, I sought a measure of school leaders' influence on the policy process. I looked to find a measure of leadership groups, which includes school principals, superintendents and school board members. Finding political contributions for leadership groups proved quite challenging. After unsuccessfully looking for leadership political contributions, I sought other measures of their influence.

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The School Superintendent Association (AASA) and The National School Boards Association (NSBA)¹⁷. There exists wide variation in size of these leadership organizations across states.

In addition to collecting total asset records for these state leadership groups, I also gathered total assets of state teachers unions associated with the National Education Association (NEA) and the American Federation of Teachers (AFT). As a more locally based organization, the AFT did not have an affiliate in every state, however, future research should develop a more inclusive measure of AFT affiliates that captures the organization's influence.

To best reflect the combined interests of these groups and to account for possible gaps in individual state affiliates, I generated two composite variables. The first variable combined the assets of all the leadership groups, and the second variable combined the assets of the teachers unions. Each variable was then transformed into a per student measure to control for state size.

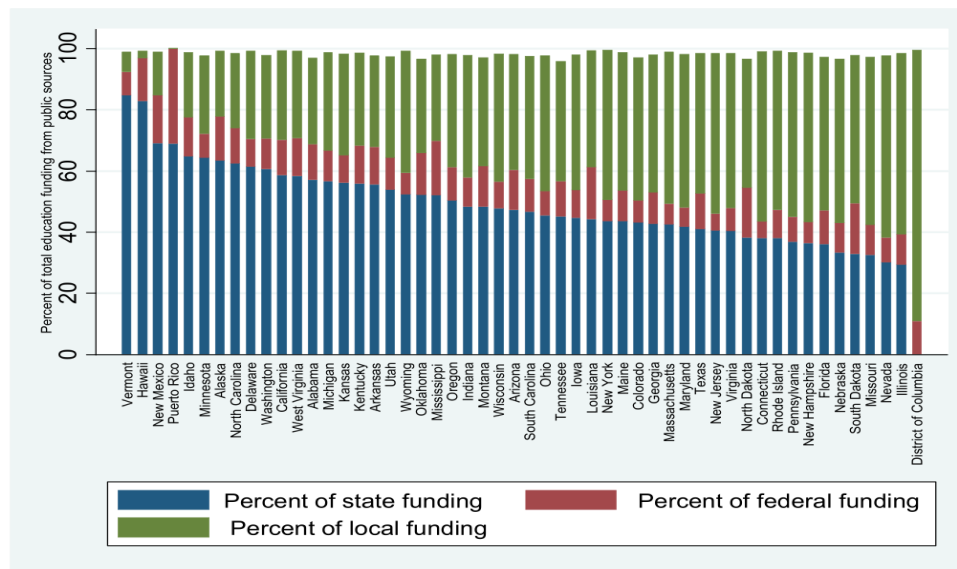
My two measures of bureaucratic capacity, state population density and percentage of state funding, are variables used in Manna and Harwood's (2011) paper on state governance and policy outcomes. State population density is used as a proxy of SEA strength. The theory is that urban states tend to have greater capabilities at the state and local level. Urban states have both the resources and professional networks to help buoy the state agency. In rural states that tend to have weaker administrative capacities, it can be difficult to enact intense reforms that would increase responsibility on strapped states and localities. I have collected population density data from the U.S. Census Bureau's total population estimates from 2006 to 2009 and the census count in 2010. Total state land area was gathered from the *National Atlas*. As a highly skewed variable, I decided to take the natural log of population density to bring in some of the outliers.

¹⁷ See Table 2 (A-F) in the Appendix for a complete list of the state affiliates searched for this project. As a note, leadership groups are not a large part of this paper's analysis of state-level factors and their impact on local reform implementation. However, future research in the implementation of education reform would benefit from a more in-depth study of the impact of leadership groups. For this reason, I have listed the groups searched in this study.

My second variable for bureaucratic capacity is the percent of total education funding from state sources. State funding captures the financial and political strength of the state and its agency relative to federal and local interests (Manna and Harwood 2011). States that invest a larger portion of the fiscal pie will position a state to be more assertive on reform decisions. These data were collected from the National Center for Education Statistics annual Digest of Education Statistics in Table 181 for years 2006 to 2010.

As you can see in Figure 5, there is wide variation in education funding by source. Some states rely heavily on state funding, while others are more locally based. Federal spending remains fairly consistent at about 10 percent of total spending. My theory of bureaucratic capacity would predict that for states where a greater amount of their funding comes from state coffers, these states will implement more complex and technical reforms. On the other hand, states with little state level funding will shirk their responsibility and select simpler reforms. I will explain how these theories manifest themselves in the forthcoming hypothesis section.

Figure 5. Average division of total public education funding (federal, state, local) by state from 2006 to 2010.



Note: Data collected from the National Center for Education Statistics's Digest of Education Statistics Table 181 from 2006 to 2010. States may not total to 100 percent due to omission of private funding sources.

Control Variables

I have three control variables designed to isolate the effects of the individual independent variables. The first control is the percentage of students in a state that receive a free or reduced priced lunch. This measure is a common control in education studies to account for socioeconomic variation across states (Hartney and Flavin 2010; Moe 2011). The free and reduced lunch rate also accounts for the challenges that resource poor schools and states have in funding reforms. Poor states face different and additional challenges when educating their children (Manna and Harwood 2011). For example, in communities where students are malnourished due to financial hardship, there is clear evidence of poorer academic performance (Meier and O'Toole 2006). The second control is the percentage of the state student population that is white. The percentage of white students in a state helps account for the diversity of the state and some of the demands on states and schools (Manna and Harword 2011). Diversity often results in additional task demands for actors in a system. For instance, in schools with large

English Language Learner populations, teachers and administrators are faced with a scarce resource problem where they have to adapt their teaching for a prominent subgroup while also maintaining quality of learning for other students (Meier and O'Toole 2006). These controls are not here to assert that poor and diverse states care less about education in their state, but rather that they often face greater challenges in collecting enough resources and teaching students with greater variation in needs and abilities. Both of these variables were collected from the National Center of Education Statistics table generator tool.

The third and final control for my study is a measure of political dynamics. I have collected data on the party affiliation of a state's governor and legislature from 2006 to 2010. Others have used this technique of unified versus divided partisan government to help control for variation in policy (Alt and Lowry 1994; Manna and Harwood 2011). For this study, I looked at just unified Republican government for two reasons. First, I had problems with regression results when I added three partisan dummy variables. Second, Republicans at the state level have been at the forefront of many recent reforms¹⁸. The variable is a dummy variable with a state receiving a value of 1 if there is a unified Republican government, meaning both the Governor and legislatures are Republican led. A state receives a 0 if either the governor or the legislature is not Republican controlled. These data were collected from the National Governor's Association and the Council of State Governments.

Methods

To analyze the data collected, I use large-N quantitative methods. For each dependent variable, I run an ordinary least square regression with robust standard errors and clustered by state. I further account for the multiple years in my data set by using dummy variables for years

¹⁸ Many Republican states have been implementing reforms. See <http://www.economist.com/node/21548268>.

2007, 2008 and 2009 with year 2006 omitted. I have removed year 2010 due to the missing values for state education funding. These year variables control for unmeasured factors that may be associated with changes across each year. Clustering by state allows multiple values for each state, and it assumes that each state year is not independent, meaning a state does not restart its policy process each year. My regression will attempt to explain the variation in implementation of each reform with the state year as my level of analysis.

Corrective Action Hypotheses

Hypothesis 1: In states that have a strong business interest presence, schools in corrective action will implement a greater proportion of *Outside expert* reforms.

Hypothesis 2: In states that have a strong teachers union presence, schools in corrective action will implement a smaller proportion of *Staff replacement* reforms.

Given a strong presence from any of these interest groups, I expect them to push at the state and local level for schools to implement reforms favorable to their members. Business groups will seek solutions consistent with their goal of bringing free-market style reforms to education, while teachers unions will seek to protect their members from layoffs.

Hypothesis 3: In states that have strong state education bureaucracies, schools in corrective action will implement a greater proportion of *New curriculum*, *Change internal organization*, and *Extended school day or year* reforms.

Strong SEAs will have the resources and manpower to direct at reforms, including developing *New curriculums*, *Change internal organization*, or *Extend the school day or school year*. Less capable SEAs may decide to shirk their responsibility or become less involved in the process

because they do not have the resources to adequately help, and they do not want to overextend beyond their established policy turf (Wilson 1989).

Restructuring Hypotheses

Hypothesis 4: In states that have a strong business interest presence, schools in restructuring will implement a greater proportion of *Private contract* and *Public charter* reforms.

Hypothesis 5: In states that have a strong teachers union presence, schools in restructuring will implement a smaller proportion of *Staff replacement* reforms.

Once again, interest groups seek to protect themselves and further their own policy interests. Business associations will seek to push a private, free-market agenda, including implementing reforms with expert *Private contractors* and *Public charter* schools. Teachers unions will protect members from firings.

Hypothesis 6: In states that have strong education bureaucracies, schools in restructuring will implement a greater proportion of *State takeover* reforms and a smaller proportion of *Other* reforms.

SEAs that have access to more resources will be able to implement more complex reforms. *State takeovers* are often difficult to perform and require significant manpower, resources, and expertise. Additionally, states with greater resources should seek to implement more complex options than *Other* reforms.

Results

The following section will review the findings from my 12 models of AYP reform implementation. There are seven corrective action models and five restructuring models. I use

the variables described in the Data and Methods section to test the impact of education interest groups and the capacity of state education agencies.

I will begin with a brief analysis of some basic bivariate relationships and summary statistics. Then, I will look at the impact of business associations and teachers unions individually. Finally, I will address the influence of bureaucratic capacity.

Summary and Basic Statistics

In this subsection of results, I will outline some of the basic relationships between the independent, dependent and control variables. I will also discuss the relationship with two independent variables, teachers union and school leadership assets.

In looking at correlations of business association and reforms implemented, there are no strong findings. First, there is little evidence of a positive association between business associations and *Outside expert* reforms, as I had hypothesized. The correlation coefficient is just $r = 0.037$. I also predicted that greater business influence would lead to an increase in *Private contract* and *Public charter* reforms. However, the correlation coefficients for each—*Private contract* ($r = -0.008$) and *Public charters* ($r = -0.036$)—are so small that the relationship is almost random.

Despite the somewhat surprising business association results, there are some more promising correlations with teachers unions. As I predicted earlier, increased teachers union political influence is associated with fewer *Replace staff* reforms. Yet, the two correlations are not strong. For corrective action *Replace staff*, the coefficient is $r = -0.081$ and it is $r = -0.102$ for restructuring.

Finally in looking at the bureaucratic capacity measures, I projected that increased SEA strength would be related with greater implementation of *New curriculum*, *Change internal organization* and *Extended school days or years* reforms. I found mixed results across measures. For *Change internal organization* reforms, there was a positive association with state funding ($r = 0.106$) and an insignificant relationship with density ($r = 0.001$). In the cases of *New curriculum* and *Extended school days or years*, the signs of the two independent variables were different and all relatively small.

The correlations with restructuring reforms and the bureaucratic capacity measures are more in line with my hypotheses. I hypothesized that an increase in bureaucratic capacity would be associated with an increase in *State takeovers* and a decrease in *Other* reforms, and both are supported by initial correlation coefficients. There is a moderately strong correlation between *State takeovers* and state education funding ($r = 0.372$), and the second correlation between *State takeovers* and state education funding is weaker but in the same direction ($r = 0.077$). For *Other* reforms the correlation with state education funding is negative ($r = -0.202$) and so is the correlation with population density ($r = -0.169$). Although few definitive conclusions can be drawn from any of these weak correlations, it appears that there are a few relationships that have the direction I anticipated.

The following section discusses two independent variables, teacher union and school leadership assets. The first observation to note is there is no substantive correlation between the two groups assets ($r = -0.011$). This result is not too surprising given common dynamics between teachers and leaders in local and state settings, where they are often on opposite sides of the table. A second important observation is that teachers union assets are positively related to teachers union contributions, but the relationship is not too strong ($r = 0.184$).

Following a similar logic to the interest group model for union contributions, I can expect to see greater assets associated with fewer *Replace staff* reforms. There is a negative but weak relationship that exists between teachers union assets and *Replace staff* reforms ($r = -0.098$). Additionally, there is a negative relationship between leadership assets and *Replace staff* reforms ($r = -0.083$). Leadership assets do have an expected negative relationship with *Replace principal* reforms under corrective action ($r = -0.144$), and teachers unions have an equally strong negative association with the *Replace principal* reforms ($r = -0.140$).

However, leadership assets has an almost random association with *Replace staff* reforms under restructuring ($r = 0.009$), and this is even more surprising, because this version of *Replace staff* often includes replacement of principals, two of the main groups in the combined leadership asset measure. Teachers assets, unlike leadership, is negatively related with restructuring *Replace staff* ($r = -0.185$).

From this inconclusive descriptive analysis, it appears that leadership association and teachers union assets reflect the expected direction of reforms. However, in just looking at correlation coefficient over a few years, it would be foolish to draw any substantive conclusions about the impact of leadership groups or teachers unions on school reforms.

Business Associations

The first set of regression models will focus on my business association hypotheses and the overall impact of business contributions on the implementation of AYP reforms. In the first hypothesis, I predicted that an increase in business association contributions would result in an increase in the proportion of *Outside expert* reforms implemented. According to Model 7 in

Table 6, there is no statistically significant relationship and evidence of a positive relationship between business association contributions and *Outside expert* reforms.

Business associations do, however, have a statistically significant impact on three of the models in Table 6. In Model 1, business contributions has a statistically significant relationship with implementation of *New curriculum* reforms. A one dollar per student increase in business contributions, is associated with a 0.602 percentage point decrease in *New curriculum* reforms, holding all other factors equal. For a standard deviation increase in business contributions, there is a 1.296 percentage point decrease in *New curriculum* reforms implemented, and this is only 4.9 percent of a standard deviation decrease in the reforms.

Business contributions has a positive relationship with *Replace staff* in Model 3 in Table 6. A one dollar per student increase in business contributions leads to a 0.210 percentage point increase in *Replace staff*. This means for a one standard deviation increase in business contributions, there is a 4.5 percent of a standard deviation increase in the number of *Replace staff* corrective action reforms.

Finally, business contributions has a similar impact on the implementation of *Change internal organization* corrective actions in Model 6. Holding all else equal, a one dollar per student increase in the independent variable leads to a 0.327 percentage point decrease in *Change internal organization* reforms. For a standard deviation increase in business contributions, there is just a 5.1 percent of a standard deviation decrease in *Change internal organization* reforms.

Table 6: Corrective Action Reforms OLS Regression Clustered by States							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Curriculum	Extended School Day or Year	Replace Staff	Decrease Authority	Replace Principal	Change Internal Organization	Outside Expert
Per Student Business Association Political Contributions Over Two-Year Cycle	-0.602** (.28)	0.006 (.20)	0.210* (0.11)	0.19 (0.12)	0.23 (0.16)	-0.327*** (.12)	0.294 (0.31)
Per Student Teachers Union Political Contributions Over Two-Year Cycle	1.665* (0.94)	-0.421 (.32)	-0.178* (0.10)	-0.306 (.24)	0.021 (0.37)	-0.738*** (0.20)	-0.042 (0.63)
Percentage of Education Funding from State Sources	.293* (0.17)	0.024 (.12)	-0.223 (0.14)	0.008 (.06)	-0.08 (0.05)	0.098 (0.09)	-0.122 (0.26)
State Population Density	2.723 (2.31)	-1.91 (1.19)	1.25 (.80)	-0.359 (1.25)	-0.208 (0.54)	-0.826 (0.79)	-0.674 (2.79)
Percentage of Students on F&R lunch	0.175 (0.23)	-0.067 (0.16)	0.210* (.10)	-0.006 (0.10)	0.092 (0.10)	-0.444*** (0.10)	0.039 (0.25)
Percentage of White Students	0.340** (0.15)	-0.1 (0.08)	-0.069 (0.06)	-0.035 (0.05)	0.027 (0.05)	-0.206*** (0.06)	0.043 (0.21)
Unified Republican Government	8.231 (5.96)	4.626 (5.14)	-2.004 (1.68)	-0.763 (2.85)	-1.615 (1.72)	-3.383 (2.70)	-5.09 (6.92)
Year 2007	3.277 (4.43)	1.77 (2.98)	-1.878 (1.44)	-0.799 (2.22)	1.218 (1.91)	-3.525 (3.18)	-0.063 (4.28)
Year 2008	6.412 (5.11)	1.073 (2.76)	-0.521 (1.74)	-0.944 (2.59)	2.258 (2.07)	-3.983 (3.20)	-4.297 (4.48)
Year 2009	11.879** (4.52)	0.104 (3.34)	-2.704 (1.69)	-3.639 (2.23)	-0.014 (1.79)	-1.28 (3.38)	-4.373 (4.38)
Constant	-27.714 (26.59)	26.660* (15.77)	8.37 (9.69)	11.087 (12.65)	4.106 (7.72)	45.819*** (12.47)	31.67 (44.44)
R-squared	0.1076	0.0715	0.2237	0.0366	0.0323	0.1494	0.0214
N (number of clusters)	178 (51)	178 (51)	178 (51)	178 (51)	178 (51)	178 (51)	178 (51)
Prob > F	0.056	0.43	0	0.012	0.306	0	0.567
Robust standard errors in parenthesis							
***p<0.01, **p<0.05, *p<0.1							

Business associations do not have a relationship with restructuring, as I posited. In Hypothesis 4, I conjectured that an increase in business contributions would lead to a greater proportion of *Public charters* and *Private contract* restructuring reforms. In looking at these two models—Model 9 and Model 10 in Table 7—the signs of the two coefficients are both negative, yet neither is statistically significant. From these results, it is unclear if there is an association between business contributions and restructuring reforms, and I can reject my fourth hypothesis.

The statistically significant findings related to the influence of business association make sense. If we look at the two negative relationships, *New curriculum* and *Change internal organization*, it is important to recognize the technical complexity of these two reforms. In the case of *New curriculum*, overhauling even one subject such as mathematics or reading for one grade can be a rigorous reform. According to the standards of corrective action implementation as outlined by the Department of Education (2006), any curriculum changes must be backed with evidence of success. Business associations, however, do not possess the technical background to help implement these reforms.

Similarly, *Change internal organization* reforms could be a complex undertaking. Neither NCLB nor the Department of Education clearly defined requirements for *Change internal organization*, except for any reform must be evidence-based and related to the initial failure to reach AYP. Options range from changes in administrative tasks and responsibilities, different scheduling, altering instructional teams or creating multiple grade classrooms.¹⁹ Once again many of these pedagogical decisions are disconnected from the solutions and ideas of many in the business community.

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<https://www.educateiowa.gov/sites/files/ed/documents/Guidance%20for%20Schools%20in%20Need%20of%20Assistance%20-%20Corrective%20Action%20-%202013%2012%2031.pdf>

Table 7: Restructuring Reforms OLS Regression Clustered by States

	(8)	(9)	(10)	(11)	(12)
	Replace Staff	Public Charters	Private Entity	State Takeover	Other
Per Student Business Association Political Contributions Over Two-Year Cycle	0.549 (0.35)	-0.073 (0.06)	0.076 (0.09)	-0.302 (0.22)	-0.25 (0.39)
Per Student Teachers Union Political Contributions Over Two-Year Cycle	-0.786 (0.49)	-0.086 (0.07)	-0.215 (0.19)	-0.042 (0.33)	1.129* (0.58)
Percentage of Education Funding from State Sources	-0.173 (0.17)	0.022 (0.02)	-0.074 (0.06)	0.617 (0.41)	-0.392 (0.38)
State Population Density	0.87 (1.85)	0.047 (0.15)	0.5 (0.48)	1.207 (1.36)	-2.624 (2.56)
Percentage of Students on F&R lunch	0.571 (0.37)	-0.032 (0.05)	-0.108 (0.09)	-0.239 (0.34)	-0.192 (0.46)
Percentage of White Students	0.199 (0.18)	0.014 (0.02)	-0.053 (0.04)	-0.342 (0.24)	0.182 (0.26)
Unified Republican Government	-10.409* (5.94)	-0.131 (1.04)	-2.829** (1.30)	4.667 (4.27)	8.702 (6.22)
Year 2007	-4.457 (6.64)	-2.241 (2.20)	1.36 (1.57)	-0.641 (0.96)	5.979 (6.35)
Year 2008	-11.24 (6.80)	-2.201 (2.21)	0.829 (1.50)	5.884* (3.05)	6.729 (7.32)
Year 2009	-14.313** (6.96)	-1.293 (2.22)	1.905 (2.10)	3.541 (2.99)	10.16 (8.18)
Constant	-1.659 (29.47)	1.766 (3.87)	11.536 (7.57)	-3.724 (13.41)	92.08*** (31.24)
R-squared	0.0925	0.0295	0.0813	0.2914	0.1103
N (number of clusters)	155 (49)	155 (49)	155 (49)	155 (49)	155 (49)
Prob > F	0.0001	0.8421	0.1613	0.8924	0.0001
Coefficient in the first cell, and robust standard errors in parenthesis in the row below					

***p<0.01, **p<0.05, *p<0.1

One of the most common reforms that business associations have advocated for is teacher accountability (Moe 2011). The business community typically clashes with teachers unions on this issue and others. Associations sees teachers as an important factor affecting students success. If teachers cannot perform at a high level, then they should be fired as they would in the private sector. Teachers unions view business association solutions as quick fixes that make teachers the undeserving scapegoat (Moe 2011; Ravitch 2010). Given this traditional divide, it is unsurprising that business associations are associated with a greater proportion of *Replace staff*. Business does have a relationship—albeit substantively rather small—with reforms. Associations appear to prefer quick personnel changes to complex systematic changes.

Teachers Unions

Teachers unions are often one of the most influential groups in the education policy discussion. For the purposes of this study, I predicted in Hypothesis 2 that an increase in teachers union political contributions would result in a smaller proportion of *Replace staff* corrective action reforms. Based on Model 3 in Table 6, I find some evidence of a negative relationship.

For a one dollar per student increase in teacher union political contributions, there is a 0.178 percentage point decrease in *Replace staff* corrective actions, holding all other factors constant. A standard deviation increase in union contributions results in a 0.454 percentage point decrease in *Replace staff* or 4.7 percent of a standard deviation in the dependent variable.

Teacher union political contributions have even more substantive impact in two other models. First, teacher union contributions have a positive relationship with *New curriculum* in Model 1. For a dollar per student increase, holding all else equal, there is a 1.665 percentage point increase in *New curriculum* reforms implemented. For a standard deviation increase in

contributions, there is a 4.25 percentage point increase in *New curriculum* reforms. Take a state such as Massachusetts in the 2008-2009 school year, which had a total of 253 corrective action reforms implemented that year. An additional 1.9 million dollars in political contributions by teachers unions would be associated with 11 additional schools implementing new curriculums.²⁰ Although this seems like a great deal of money, the 2009 total assets of the Massachusetts Teachers Associations—30.9 million dollars—pales in comparison to this small contribution, and add to that an additional 1.5 million dollars in assets from the smaller AFT Massachusetts affiliate.

Second, teachers unions have a negative relationship with *Change internal organization* in Model 6. A dollar per student increase in union political contribution is associated with a 0.738 percentage point decrease in the implementation of *Change internal organization* reforms, holding all else equal. A standard deviation increase in union contributions would result in a 1.88 percentage point decrease in *Change internal organization* reforms, which is 5 percent of a standard deviation change in reforms. In the Massachusetts case above, a similar contribution of close to 2 million dollars is associated with 5 fewer schools that changed their internal organization.

I predicted that teachers unions would also have an impact on the restructuring process. In Hypothesis 4, I expected that in states with a stronger teachers union presence, schools in restructuring would implement a smaller proportion of *Replace staff* reforms. The direction of the coefficient is negative, but the relationship is not statistically significant, as seen in Model 8 in Table 7.

²⁰ Calculated by one standard deviation in political contributions is \$2.19 per student with approximately 958,910 students in Massachusetts schools in 2008-2009 results in \$1,917,820 in political contributions. To calculate the number of extra reforms implemented take 4.25 percent of 253 total reforms.

Teachers unions do appear to have an impact on *Other* restructuring reforms. In Model 12, there is a positive relationship. A one dollar per student increase in union contributions is associated with a 1.129 percentage point increase in *Other* reforms implemented, holding all other factors constant. With a standard deviation increase in contributions, there is a 2.88 percentage point increase in *Other* reforms. Once again, this impact appears small, but is substantive.

These results appear to be substantively meaningful. My two primary hypotheses related to teachers unions as interest groups reflected their well-founded desire, according to the literature, to protect their own members' jobs (Kahlenberg 2006; Moe 2011). The results of corrective action reforms seems to prove that unions protect their members, yet there is no clear answer in restructuring. In addition, unions have a meaningful impact on *New curriculum* and *Change internal organization* corrective action implementation.

Teachers unions' support for *New curriculum* reforms seems to make sense. There are two possible perspectives that could explain why unions would support this reform, one normatively positive and the other negative. First, unions could be supportive of reform because they see it as a measure that could make their members more effective in the classroom. Whether it is developing new evidence-based pedagogical methods, instituting new math or reading curriculum, or even developing a primary curriculum, unions may see this reform as a necessary tool for teachers' success. Second, unions could like curriculum reform because it is a way to avoid reform options they do not support. Unions could see *New curriculum* reform as a safe alternative when compared to *Replace staff*, *Extended school day or year*, or *Change internal organization*. All of these options could threaten the status quo work for teachers that unions

have looked to establish²¹. From this study it is unclear, which of these explanations may best fit the real world, but both are plausible and help to explain how union contributions are associated with *New curriculum* reforms.

Unions' support for *Change internal organization* corrective action reforms is more challenging to explain. Traditionally in the education interest group literature, teachers unions and business associations act as opposing forces with divergent interests. In this case, both groups' activities have negative associations with *Change internal organization*. Associations most likely oppose this reform because it requires too much technical knowledge. The most plausible explanation, for unions, is that these reforms could be considered too disruptive and unproductive. As I discussed earlier, *Change internal organization* is a vague reform that could be implemented in a variety of ways. This uncertainty may also explain part of the union's opposition. Altering classroom grade levels or instructional teams or daily scheduling would add additional constraints to the work of teachers and require many to dramatically alter their daily routine.

Bureaucratic Capacity

The second theoretical lens which I test in this analysis is a bureaucratic capacity framework. At its most basic, my theory states that stronger state agencies would implement reforms that they deemed to be more rigorous in both corrective action and restructuring. In Hypothesis 3, I predicted that increased measures of bureaucratic capacity—increased education funding from state sources and increased state population density—would result in a greater proportion of *New curriculum*, *Change internal organization*, and *Extended school day or year*

²¹ All reforms must be in accordance with existing state and local labor laws and agreements.

corrective action reforms. In the following section, I will address the results of each reform model individually.

First, there is mixed support for my estimation of *New curriculum* reforms. As seen in Model 1, a one percentage point increase in state education funding as part of total funding, results in a 0.293 percentage point statistically significant increase in *New curriculum* reforms implemented, holding all other factors constant. In more practical terms, a one standard deviation increase in state education funding would result in a 4.06 percentage point increase in *New curriculum* reforms implemented. Take a relatively small reform state like Georgia, which implemented 59 corrective action reforms in the 2006-2007 school year. A standard deviation increase would be associated with a 2 school increase in *New curriculum* reforms. However, take a large state like California in the 2006-2007 school year. In this year, California implemented 861 reforms. A standard deviation increase would result in about 34 schools with additional *New curriculum* reforms. The positive result between state education funding and *New curriculum* does not hold for state population density. There is a positive sign, but it is not statistically significant. It appears that there is some but limited evidence of a relationship between bureaucratic capacity and the implementation of *New curriculum* reforms.

Second, I find no support for my expectation that increased bureaucratic capacity would lead to increased implementation of *Change internal organization* reforms. In Model 6, state education funding has a small positive relationship with the dependent variable, but it is not significant. State population density is also insignificant and negative. I can reject this part of Hypothesis 3.

Third, there is no support for the third part of my corrective action hypothesis. In Model 2, I expected to see positive and statistically significant relationships with *Extend school day or*

year and both independent variables. Instead, state education funding has a statistically insignificant positive relationship with extended school day or year, and state population density has a negative and insignificant relationship. I can reject the third part of this hypothesis.

The findings for bureaucratic capacity and corrective action are mostly insignificant, as they are for restructuring reforms. I predicted that an increase in state capacity would increase the proportion of *State takeover* reforms and decrease the proportion of *Other* reforms implemented in a state. In model 11 and 12, I find no evidence to support these predictions. In Model 11, both state education funding and population density have positive signs in association with *State takeover*, yet both are statistically insignificant. Again both signs are going the expected negative direction for *Other* reforms, but the coefficients for state education funding and population density are not significant. I can reject my sixth hypothesis.

Discussion

After analyzing my two sets of models on failing school reforms, I can now draw some general conclusions about the relationship between interest groups, bureaucratic capacity, and reform implementation. Hypothesis 1 asserted that increased business contribution are associated with increased implementation of *Outside expert* reforms under corrective action. Similarly, Hypothesis 4 asserted that increased business contributions would be associated with greater implementation of *Public charter* and *Private contract* restructuring reforms. According to Model 1 in Table 6 and Model 8 and 9 in Table 7, my hypotheses do not appear to be supported.

Hypothesis 2 predicted an increase in teacher union contributions would be associated with fewer *Replace staff* corrective action reforms. This prediction is supported in Model 3 of Table 1, however, the similar hypothesis for restructuring is not supported. As seen in Model 8, there is a negative but statistically insignificant relationship.

In the corrective action bureaucratic capacity hypothesis, I predicted increased capacity would lead to greater implementation of *New curriculum*, *Extended school day or year*, and *Change internal organization* corrective action reforms. Evidence in Model 1 supports the positive relationship with *New curriculum*, but no other model is statistically significant. For my sixth hypothesis, I posited that additional bureaucratic capacity would be associated with a greater proportion of *State takeovers* and fewer *Other* reforms. Neither of these predictions were supported in Model 11 and 12.

Despite the mixed findings related to my original hypotheses, there are more expansive conclusions that can be pulled from the results. First, business associations appear to prefer quick and clean accountability measures rather than complex and technical ones. In the corrective action models, business contributions were positively associated with *Replace staff* and negatively associated with *New curriculums* and *Change internal organizations*. The main difference between these two sets of reforms is that staff replacement can be fairly quickly executed—fire any low performing teachers—while developing *New curriculums* and *Change internal organizations* could take significantly more time to plan and implement.

Second, teachers unions protect their own, seek to build classroom capacity, and oppose realignment of systems. Unsurprisingly, unions are negatively associated with *Replace staff* replacement. One of their main duties is to provide job security for their members. Part of this negative effect may have to do with institutional power. Under the guidelines for implementing *Replace staff*, localities are required to comply with all established state and local labor laws, which could make it quite difficult for localities to force out teachers who are protected by tenure and collective bargaining in some states. Union contributions are also positively associated with *New curriculums*. For teachers, *New curriculums* provide an opportunity to build classroom

capacity, sharpen their skills, and help improve their pedagogical techniques. Unions may also be looking to avoid other more difficult choices. Unions have a negative relationship with *Change internal organization*, which is designed to shake up the day to day activities of students, teachers, and principals. Perhaps, unions see this reform as useless and unhelpful or maybe as an extra burden and a pain to implement. Unions are also positively associated with *Other* reforms in restructuring. Unions may also be looking to shirk systematic and difficult change in restructuring, or maybe they are avoiding the four remaining options because they are not favorable to union interests.

Third, bureaucratic capacity is associated with only one reform. State funding's positive relationship with *New curriculum* reforms may reflect a stronger agency's ability to aptly help localities in implementation. Good SEAs would have the necessary resources and technical expertise to help with this reform. Besides *New curriculum*, it is hard to draw any substantive conclusions on the impact of bureaucratic capacity. One possibility is that state agencies are not influential in this process. Although SEAs are suppose to help localities with technical support systems and distribution of funding, it is possible that they are not at all helpful and are not filling the role intended as a facilitator of federal policy. However, I think the more likely explanation is that my measures of bureaucratic capacity are not capturing the mechanism through which agencies influence localities. Although state funding and population density are measures used in the education policy literature, more ideal measures would relate directly to financial and staffing capacities of the agency (Berkman and Plutzer 2011) or the commitment of leaders and agents to executing policy (Jochim and Murphy 2013). It would also be useful to gather measures of "statewide system of support that provides technical assistance to schools

identified for improvement” (USDOE 2006), since this is the specific task that agencies were given related to AYP implementation.

Implications

Bureaucratic capacity and interest group theories of policy-making tell a compelling story, yet for this study, there is still much variation to explain that is not captured by these two theories. At the beginning of this paper I asked: Are there state-level factors that influence the types of reforms implemented in struggling schools? My evidence suggests that there are. Overall, interest groups have a substantive impact on the policy process, but bureaucratic capacity does not.

In looking at the real world impact of business associations and teachers unions, I found that increased participation by these groups could result in changes in implementation at many schools. I also found that teachers unions, in particular, have the resources available to contribute significantly more politically, and perhaps, have an even more substantive impact. Yet, bureaucratic capacity seemed to have no or a very small effect. Perhaps, bureaucratic capacity does not influence local implementation of reforms.

Although I can not be certain, I believe that the measures of bureaucratic capacity were a significant portion of the problem. Both state education funding as a percent of total education and state population density are proxy measures for bureaucratic capacity. Despite their use in the education policy and implementation literature, these types of studies would benefit from greater access to state information. In the case of this project and future research in the area of local implementation, basic measures of state funding for state agencies and staff numbers would be a helpful start. These measures do not capture the entire story either, however. Measures of state expertise and communication with localities would also be important. It is understandable

that not much research has been done using these types of variables, because of poor transparency and reporting by agencies. Regardless, there is much work that can be done to improve this type of study in education policy.

In addition, a more comprehensive study of local dynamics' impact on local implementation would be valuable. Despite SEAs' requirements under NCLB to help and hold localities accountable for reform, much of the heavy lifting in planning, debating, and executing reforms happens at the local level. In this study, I was unable to easily find access to quantitative local data that would prove useful. A focused qualitative study would, perhaps, be able to answer some of the questions I was unable to. It would not only be interesting to examine how interest groups and, especially, SEAs influence local reform, but also this type of study would give policymakers a more nuanced understanding of what each of these reforms look like in practice. Filling this hole in the NCLB literature would certainly be a valuable addition.

Even this study was at the mercy of accurate and thorough reporting of corrective action reforms by states. Due to the vague language and poor enforcement by the U.S. Department of Education, there is some variation in how states have reported their data on corrective action and restructuring. There are also cases of omitted states due to NCLB waivers or poor state reporting. This study was unable to account well for this other than to drop states from the analysis, and future research would do well to dive into these omitted states further.

Although the numbers of schools impacted by state forces may seem substantively small, there is an argument to be made that great focus should be put on these schools. At the foundation of our American education system is the core belief that all children should have an opportunity at a great education that will give them options to pursue their own version of success. For students in schools under corrective action and restructuring, there is little chance of

attaining this goal. These struggling schools have failed to meet basic—and in some cases very low—standards of academic achievement. These schools do not provide students with the same opportunities as many of their peers in better performing schools, and policymakers should, as they attempted in NCLB, seek to fix this inequity for students left in failing schools.

Even with good intentions to fix America's worst schools, policymakers must not only implement policy they believe will help, but also recognize the impact of internal and external influences on its implementation. Leaders at all levels should be aware of these other actors—teachers unions, business associations and SEAs—and their perspectives on policies. In this study, it appears that the two most prominent education interest groups may have influenced how and what localities implemented. This is not to say that any of these groups are particularly harmful to students, but it is possible that these groups may not always best represent the needs of students in the most vulnerable schools in America. In the end, leaders should be aware of the actors in their policy environment and that to obtain desired policy outcomes, they must find ways to navigate these interests.

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Appendix

Table 2. List of state affiliates from national labor organizations

A. NEA state affiliates

Alabama Education Association
Arizona Education Association
Arkansas Education Association
California Teachers Association
Colorado Education Association
Connecticut Education Association
Delaware State Education Association
Education Minnesota
Florida Education Association
Georgia Association of Educators
Hawaii State Teachers Association
Idaho Education Association
Illinois Education Association
Indiana State Teachers Association
Iowa State Education Association
Kansas National Education Association
Kentucky Education Association
Louisiana Association of Educators
Maine Education Association
Maryland State Education Association
Massachusetts Teachers Association
Mea-Mft
Michigan Education Association
Mississippi Association of Educators
Missouri National Education Association
National Education Association of New Mexico
National Education Association Rhode Island
NEA-Alaska
NEA-New Hampshire
Nebraska State Education Association
Nevada State Education Association
New Jersey Education Association
North Carolina Association of Educators
North Dakota Education Association
Ohio Education Association
Oklahoma Education Association
Oregon Education Association
Pennsylvania State Education Association
South Carolina Education Association
South Dakota Education Association
Tennessee Education Association
Texas State Teachers Association
Utah Education Association
Vermont-NEA
Virginia Education Association
Washington Education Association
West Virginia Education Association
Wisconsin Education Association Council
Wyoming Education Association

B. AFT state affiliates

AFT Connecticut
AFT Kansas
AFT Massachusetts
AFT Michigan
AFT Mississippi
AFT Missouri AFL-CIO
AFT New Mexico
AFT Pennsylvania
AFT Washington
AFT-NH
AFT-Oklahoma
American Federation of Teachers Utah
American Federation of Teachers-Maryland
Arizona Federation of Teachers Unions
California Federation of Teachers
Colorado Classified School Employees Association
Georgia Federation of Teachers
Illinois Federation of Teachers
Indiana Federation of Teachers
Louisiana Federation of Teachers
Minnesota Federation of Teachers
New Jersey State Federation of Teachers
New York State United Teachers
Ohio Federation of Teachers
Oregon AFT
Rhode Island Federation of Teachers & Health Professionals
Texas AFT
The Federation
United Professionals of Vermont
Washington Teachers Union
West Virginia AFT
Wisconsin AFT

C. NAESP state affiliates

Alabama Association of Elementary School Administrators
Alaska Association of Elementary School Principals
Arizona School Administrators
Arkansas Association of Elementary School Principals
Association of California School Administrators
Association of Washington School Principals
Association of Wisconsin School Administrators, Inc.
Colorado Association of School Executives
Confederation of Oregon School Administrators

Connecticut Association of Schools
Delaware Association of School Principals
District of Columbia Association of Elementary School Principals
Florida Association of Elementary and Middle School Principals
Georgia Association of Elementary School Principals
Hawaii Elementary and Middle School Administrators Association
Idaho Association of Elementary School Principals
Illinois Principals Association
Indiana Association of School Principals
Kansas Association of Elementary School Principals
Kentucky Association of Elementary School Principals
Louisiana Association of Principals
Maine Principals' Association
Maryland Association of Elementary School Principals
Massachusetts Elementary School Principals' Association
Michigan Elementary & Middle School Principals Association
Minnesota Elementary School Principals' Association
Mississippi Association of School Administrators Inc.
Missouri Association of Elementary School Principals
Montana Association of Elementary & Middle School Principals
Nebraska Association of Elementary School Principals
Nevada Association of Elementary School Principals
New Hampshire Association of School Principals
New Jersey Principals and Supervisors Association
New Mexico Association of Elementary School Principals
North Carolina Principals & Assistant Principals Association
North Dakota Association of Elementary School Principals
Ohio Association of Elementary School Administrators
Oklahoma Association of Elementary School Principals
Pennsylvania Association of Elementary & Secondary School Principals
Rhode Island Association of School Principals
School Administrators Association of New York State
School Administrators of Iowa
South Carolina Association of School Administrators
South Dakota Association of Elementary School Principals
Tennessee Principals Association
Texas Elementary Principals and Supervisors Association
Utah Association of Elementary School Principals
Vermont Principals' Association
Virginia Association of Elementary School Principals
West Virginia Association of Elementary & Middle School Principals
Wyoming Association of Elementary & Middle School Principals

D. NAASP state affiliates

Affiliated Georgia School Leaders

Alaska Association of Secondary School Principals
Arkansas Association of Secondary School Principals
Council for Leaders in Alabama Schools
Delaware Association of School Administrators
Florida Association of School Administrators Foundation
Hawaii Association of Secondary School Administrators
Idaho Association of School Administrators
Kansas Association of Secondary School Principals
Kentucky Association of Secondary School Principals
Maryland Association of Secondary School Principals
Massachusetts Secondary School Administrators' Association
Michigan Association of Secondary School Principals
Minnesota Association of Secondary School Principals
Mississippi Association of Secondary School Principals
Missouri Association of Secondary School Principals
Nebraska Council of School Administrators
New Mexico Association of Secondary School Principals
North Dakota Council of Educational Leaders
Ohio Association of Secondary School Administrators
Oklahoma Association of Secondary School Principals
School Administrators of Montana
Secondary School Principals Association of Nevada
South Carolina Association of Secondary School Administrators
South Dakota Association of Secondary School Principals
Tennessee Association of Secondary School Principals
Texas Association of Secondary School Principals
Utah Association of Secondary School Principals
Virginia Association of Secondary School Principals
West Virginia Association of Secondary School Principals
Wyoming Association of Secondary School Principals

E. AASA state affiliates

Alaska Association of School Administrators
Arkansas Association of Educational Administrators
Buckeye Association of School Administrators
Connecticut Association of Public School Superintendents
Florida Association of District School Superintendents
Georgia School Superintendent Association
Illinois Association of School Administrators
Indiana Association of Public School Superintendents Foundation
Kentucky Association of School Administrators
Louisiana Association of School Executives
Maine School Superintendents Association
Massachusetts Association of School Superintendents
Michigan Association of School Administrators
Minnesota Association of School Administrators
Missouri Association of School Administrators
Montana Association of School Superintendents
Nevada Association of School Administrators
New Hampshire School Administrators Association

New Jersey Association of School Administrators
New Mexico Coalition of Educational Leaders
New York State Council of School Superintendents
North Carolina Association of School Administrators
North Dakota Association of School Administrators
Oklahoma Association of School Administrators
Pennsylvania Association of School Administrators
Public School Superintendents Association of Maryland
Rhode Island School Superintendents Association
School Administrators of South Dakota
School Superintendents of Alabama
Tennessee Organization of School Superintendents
Texas Association of School Administrators
United School Administrators of Kansas
Utah School Superintendents Association
Vermont Superintendents Association
Virginia Association of School Superintendents
Washington Association of School Administrators
West Virginia Association of School Administrators
Wisconsin Association of School District Administrators
Wyoming Association of School Administrators

New York State School Boards Association
North Carolina School Boards Association
North Dakota School Boards Association
Ohio School Boards Association
Oklahoma State School Boards Association
Oregon School Boards Association
Pennsylvania School Boards Association
Rhode Island Association of School Committees
South Carolina School Boards Association
Tennessee School Boards Association
Texas Association of School Boards
Utah School Boards Association
Vermont School Boards Association
Virginia School Boards Association
Washington State School Directors' Association
West Virginia School Boards Association
Wisconsin Association of School Boards
Wyoming School Boards Association

F. NSBA state affiliates

Arizona School Boards Association
Arkansas School Boards Association
Associated School Boards of South Dakota
Association of Alaska School Boards
California School Boards Association
Colorado Association of School Boards
Delaware School Boards Association
Florida School Boards Association
Georgia School Boards Association
Idaho School Boards Association
Illinois Association of School Boards
Indiana School Boards Indiana School Boards Association
Iowa Association of School Boards
Kansas Association of School Boards
Kentucky School Boards Association
Louisiana School Boards Association
Maine School Boards Association
Maryland Association of Boards of Education
Massachusetts Association of School Committees
Michigan Association of School Boards
Minnesota School Boards Association
Mississippi School Boards Association
Missouri School Boards' Association
Montana School Boards Association
Nebraska Association of School Boards
Nevada Association of School Boards
New Hampshire School Boards Association
New Jersey School Boards Association
New Mexico School Boards Association

Note: Data collected from individual national affiliate websites, listed below. Searched in Foundation Center IRS 990 form search by group name and state from 2009 to 2011. Not every state has an affiliate associated with each organization. In the combined measures, omitted was treated as \$0. Websites include:

<http://www.nea.org/home/49809.htm>, <http://www.aft.org/local/localsites.cfm>, <http://www.naesp.org/naesps-state-affiliates>, <https://www.nassp.org/Content.aspx?topic=52284>, <http://www.aasa.org/stateexecsroster.aspx?id=3706>, <http://www.nsba.org/Services/StateAssociations/Regions.pdf>